

ABSTRACT
ION DETECTOR

5 An ion detector 7 for a mass spectrometer is
disclosed comprising a microchannel plate 8 which
receives ions 12 at an input surface and releases
secondary electrons 16 from an output surface. A
detecting device 9 having a detecting surface is
10 arranged to receive at least some of the electrons 16
emitted by the microchannel plate 8. The area of the
detecting surface is substantially greater than the area
of the output surface of the microchannel plate 8.